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5 - 200					Filing Date	July 9, 2003	
JAN 1 8 200	STAT		ENT BY APPLICAN	T	First Named Inventor:	Johnson et al.	
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ETRADEN	ASI				Examiner Name	Not Yet Assigned	
Sheet	1		of	2	Attorney Docket Number	42P13967D2	
			U.S. PATEN	IT DOCUMENTS		<del></del>	
Examiner Initials*	Cite No.		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Num	ber-Kind Code <sup>2</sup> (# known)			· Figures Appear	
DUH	1.	US-	3,896,420	07/22/1975	Szabo		
OU OU OU OU OU OU	2.	US-	4,101,976	07/18/1978	Castro et al.		
oui_	3.	US-	4,459,682	07/10/1984	Mossberg		
au	4.	US-	4,670,854	06/02/1987	Mossberg et al.		
aus	5.	US-	5,204,770	04/20/1993	Kachru et al.		
OW	6.	US-	5,276,637	01/04/1994	Mossberg		
OW4	7.	US-	5,369,665	11/29/1994	Bai et al.		
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FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.¹	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т°			

Examiner	, , ,	0	Date Considered	
Signature	Huber,	Parl		5/3/105

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Substitute for F rm 1449/PTO				Complete if Known				
STATEMENT BY APPLICANT			LOSURE	Application Number 10/617,075				
			EUUUNE	Filing Date	July 9, 2003			
			PLICANT	First Named Inventor:	Johnson et al.			
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	7			Examiner Name	Not Yet Assigned			
STREET	2	of	2	Attorney Docket Number	42P13967D2			
			NON PATENT LIT	ERATURE DOCUMENTS				
Examiner Initials*	Cite No <sup>1</sup>		magazine, journal, se	AL LETTERS), title of the article ( rial, symposium, catalog, etc.), da isher, city and/or country where p	ite, page(s), volume-issue	T <sup>2</sup>		
aul	8.			-Dimensional Time-Domain Co Soc. Am. B 11: 1948-1953 (19				
pul	9.	EQUALL, R.W., 72:2179-2182 (*		optical Dephasing in Eu³+:Y₂Sio	O <sub>5₁</sub> " Phys. Rev. Lett.			
Oul	10.		HUANG, J., et al., "Excess Dephasing in Photon-Echo Experiments Arising from Excitation-Induced Electronic Level Shifts," Phys. Rev. Lett. 63:78-81 (1989)					
Olul	11.	LIN, H., et al., "I Frequency-Sele	LIN, H., et al., "Demonstration of 8-Gbit/in.2 Areal Storage Density Based on Swept-Carrier Frequency-Selective Optical Memory," Optics Letters 20:1658-1660 (1995)					
Rul	12.	MACFARLANE, Letters 18:1958		no Measurements on the Triva	lent Thulium Ion," Optics			
Ru	13.	MOSSBERG, T. Letters 7:77-79		Frequency-Selective Optical (	Data Storage," Optics			
OWA	14.	MOSSBERG, T. 537 (1992)	W., "Swept-Carrier	Time-Domain Optical Memor	y," Optics Letters 17:535-			
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Substitute 1	for Form	1449/PTO	Complete if Known				
INFC	RMA	TION DISCLOSURE	Application Number	10/617,075			
			Filing Date	July 9, 2003			
SIA		ENT BY APPLICANT	First Named Inventor:	Johnson et al.			
	(use as	many sheets as necessary)	Art Unit	2818 2653			
		FEB 0 2 2004 OF	Examiner Name	Not Yet Assigned			
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Examiner Initials*	I am and a manage in the case of the control of the						
Rul	1.	RENN, A., et al., "Spectral Hole Bu No. 19, (October 1, 1987), pp. 4040	rning And Hologram Storage, 0-4042.	'Applied Optics, Vol. 26,			
MU	2.	MITSUNAGA, M., et al., "Time- and Data Storage in Eu <sup>3+</sup> :Y <sub>2</sub> SiO <sub>5</sub> ," Option 1892.	MITSUNAGA, M., et al., "Time- and Frequency-Domain Hybrid Optical Memory: 1.6-kbit Data Storage in Eu <sup>3+</sup> :Y <sub>2</sub> SiO <sub>5</sub> ," Optics Letters, Vol. 16, No. 23, (December 1, 1991), pp.1890-1892.				
pul.	3.	YANO, R., et al., "Nonlinear Laser Spectroscopy of Eu³+:Y₂SiO₅ And Its Application To Time-Domain Optical Memory," J. Opt. Soc. Am. B, Vol. 9, No. 6, (June 1992), pp. 992-997.					
Oul	4.	LIN, H., et al, "Heterodyne Detection of Swept-Carrier Frequency-Selective Optical Memory Signals," Optics Letters, Vol. 20, No. 8, (April 15, 1995), pp. 928-930.					
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